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A CONTRACTOR OF THE PARTY OF TH		Application Number	10/064,006
TRANSMITTAL		Filing Date	June 4, 2002
FORM		First Named Inventor	Gopichandra Surnilla
(to be used for all correspondence after initial	filing)	Art Unit	3747
		Examiner Name	·
Total Number of Pages in This Submission	8+	Attorney Docket Number	FGT 386 (202-0402)
	ENC	LOSURES (Check all that	apply)
Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53		Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addre Terminal Disclaimer Request for Refund CD, Number of CD(s)	After Allowance communication to Technology Center (TC) Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below): -PTO 1449 -Copies of References RECEIVED FEB 2 6 2004 TECHNOLOGY CENTER R3700
SIGNA	TURE C	F APPLICANT, ATTORNI	EY, OR AGENT
Firm or Individual name Signature Date John D. Russell, Reconstruction of Kolisch Hartwell, P.C. February 20, 2004		n No. 47,048	
C	ERTIFIC	ATE OF TRANSMISSION	/MAILING
I hereby certify that this correspondence is b sufficient postage as first class mail in an entitle date shown below.	eing facsi	mile transmitted to the USPTO or	deposited with the United States Postal Service with ents, P.O. Box 1450, Alexandria, VA 22313-1450 on
Typed or printed name Erin Filsinger			
Signature Am C) ces	major	Date February 20, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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In re Application of:

Date: February 20, 2004

GOPICHANDRA SURNILLA and JOHN M. ROTH

Group Art Unit: 3747

Serial No.

10/064,006

Filed

June 4, 2002

For

OVERALL SCHEDULING OF A

LEAN BURN ENGINE SYSTEM

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 RECEIVED

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TECHNOLOGY CENTER R3700

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98

Applicants are submitting this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the U.S. Patent and Trademark Office the patents, publications, applications, and/or other references listed on the enclosed, completed PTO-1449 form(s). The filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicants respectfully request that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

CONTENT OF DISCLOSURE

This Information Disclosure Statement includes (1) three pages of PTO-1449 forms, and (2) a legible copy of each reference listed on the forms.

FOREIGN-LANGUAGE REFERENCES

A concise explanation of the relevance of each listed reference not in the English language follows:

<u>Japanese Patent No. 62-247176</u>: To obtain the max. combustion efficiency of an engine as a whole by allowing the spark plug in each cylinder to be ignition-timing-controlled independently, in the engine equipped with the cylinders for lean combustion and the cylinders for rich combustion.

The first cylinders 11-13 which are operated by the supply of the mixed gas in the vicinity of a theoretical air-fuel ratio and the second cylinder 14 into which the mixed gas in lean state is supplied in the low load operation and which is operated by the supply of the mixed gas in the vicinity of a theoretical air-fuel ratio in the operation other than the low load operation are provided. In such an engine, the spark plugs 51-54 installed onto the respective cylinders 11-14 are connected with a distributor 55, and supplied with the high voltage supplied from an ignition coil 56 controlled by the ignition instruction signal supplied from an ECU 60. Said ECU 60 is installed to allow the first cylinders 11-13 and the second cylinder 14 to perform the ignition timing control independently on the basis of the advance map memorized for the cylinder in each group according to the output of a cylinder discriminating sensor 57.

Japanese Patent No. 7-35016: To provide a uniform burning state for each cylinder group o as to enhance stability of an engine by changing a burning state of each cylinder group in order to improve the burning state of a cylinder group in a poor burning state on the basis of the burning state of each cylinder group.

A control unit 6 reads in a water temperature TF on a front bank F side and a water temperature TR on a rear bank R side on the basis of signals output from water temperature sensors 4, 5. When a rotation varying ratio DELTAn < an allowable limit value n1, an ignition timing ADVR on the rear bank R side is corrected to a delay angle side, thereby increasing an exhaust temperature. When DELTAn >=n1, the ignition timing ADVR is corrected to an advance angle side, thus securing stability of an engine. Thereafter, a value obtained by multiplying a difference between the water temperatures TS< TF by a predetermined coefficient is added into the ignition timing ADVR, thereby calculating an ignition timing ADVF on the front bank F side. Namely, the ignition timing ADVF is set toward the advance angle side by a value equivalent to the difference between the water temperatures with respect to the ignition timing ADVR.

TIMING OF DISCLOSURE / FEE INFORMATION

This Information Disclosure Statement is being filed, to the best of the undersigned's knowledge, either (1) before the mailing of a first Office action on the merits, or (2) before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114. Therefore, in accordance with 37 C.F.R. § 1.97(b), no fee or statement under 37 C.F.R. § 1.97(e) is required.



Please contact the undersigned with any questions or comments regarding this

Information Disclosure Statement.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on February 20, 2004.

Grin Filsinger

Respectfully submitted,

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Attorney/Agent for Applicant/Assignee

FORM PT	O-1449	DOCKET NUMBER FGT 386 (202-04		APPLICATION NUMBER 10/064,006							
	INFORMATION DISCL CITATION IN AN APPL	APPLICANTS Gopichandra Surnilla and John M. Roth									
		FILING DATE June 4, 2002	GROUP ART UNIT 3747								
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				APPLICANTS Gopichandra Surnilla and John M. Roth							
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